47358/RAH/Y35

ABSTRACT OF THE DISCLOSURE

Disclosed is a method for performing authorization of an ignition key by using

transponder decoding the lock password using the received random number and

encoded lock password, then determining if the decoded lock password is identical

to a stored lock password; (4) the transponder encoding a key password using the

stored key password, and transmitting the encoded key password to the ECU; (5)

decoded key password is identical to a stored key password; and (6) releasing an

the ECU encoding the received encoded key password, then determining if the

ignition lock state if the decoded key password is identical to the stored key

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an engine control unit (ECU) and an ignition key that stores a key ID, a lock password and a key password. The method comprises the steps of (1) the ECU receiving the key ID from the ignition key and determining if the key ID is a registered ID; (2) generating, if the key ID is a registered ID, a random number and encoding a stored lock password using the random number, and transmitting the random number and the encoded lock password to a transponder of the ignition key; (3) the

password.

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